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SAPC	10957
COPY	OF

November 8, 1956

Dear George:

This letter will confirm your verbal authorization of \$2000.00 to perform some experimental work directed to correction of the tape-wrap problem on the Systems 1 and 3 recorder.

Briefly, the problem being encountered in the field is that after a period of operation, ranging from 6 to 8 weeks, the tape becomes bunched on one side of the take-up reel. This necessitates replacing the reel to prevent a malfunction. Considerable care is required in the selection of reels and proper shimming to get correct tape wrap. Indications to date point to warpage of the reel hub as the probable cause of the difficulty. When operating under conditions of very high temperature, the problem becomes more severe and the cost of maintaining good tape wrap in the field becomes undesirably high from both a time and material standpoint.

Our first approach to a solution will be to fabricate a hub from some metal such as aluminum or magnesium. The final choice of material will likely be influenced by the relative coefficients of expansion of the metal and of the tape, plus the amount of heater power applied to the cover. The difference in weight would be approximately proportional to the difference in densities of micarta and metal. The weight of the present hub is 53.5 grams. Only the take-up reel would require a metal hub. This has been determined from previous tests.

The attached cost estimate covers the fabrication and test of some experimental reels. When we have a better understanding of the amount of work required to solve the problem, we will forward you a more complete proposal.

25X1A

Sincerely,

25X1A

Attach: CMCC Doc. No.
1132X5.49

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COST ESTIMATE

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Labor

Hours

Rate

Amount

Engineering
Design and Drafting
Shop
Test and Inspection

25X1A

Overhead at

Material

General and Administrative
Expense at

25X1A

TOTAL ESTIMATED COST

Fee at 25X1A

TOTAL ESTIMATED COST INCLUDING FEE

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